

Comprehensive Plan Cost Table Version 13 Costs through July 28, 2017	UAO COST ESTIMATE JULY 2012	EXPENDED TO DATE POST SETTLEMENT 07/28/2017	COST TO COMPLETE REMAINING 2017-2021	TOTAL COST AT COMPLETION IN 5 YEARS	TOTAL COST AT COMPLETION WITH CONTINGENCIES	% Contingency	Cost to complete with contingency	Volume to be Removed (cu. yds)	FUNDING NEEDED 2017	FUNDING NEEDED 2018	FUNDING NEEDED 2019	FUNDING NEEDED 2020	FUNDING NEEDED 2021	SUBTOTAL FUNDING REQUIRED	2022	2023	2024	TOTAL (Cost to Complete Remaining Includes below the line LTM costs)	RFP date	Start	Finish	NOTES	
			Project Complete in 5 Years																				
Mesa/DEP Funding		\$ 600,000	\$ 1,000,000	\$ 1,800,000	\$ 1,800,000	0%	\$ 1,000,000		\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000				\$ 1,000,000.00				2014-2021 - ETD for 3 years - Needs verification from 3/31/17 meeting - based on EPA comment	
USACE Funding		\$ 3,900,000	\$ 8,300,000	\$ 12,200,000	\$ 13,420,000	10%	\$ 9,130,000		\$ 2,750,000	\$ 2,750,000	\$ 2,750,000	\$ 1,210,000	\$ 1,210,000	\$ 1,210,000	\$ 9,130,000				\$ 9,130,000.00				Per Corps - \$3.9M (2014-2016), 2.9M (2017-2018) \$1.1Myr (2019 - 2021)
Pro-Serv Contract (WOM/Monit)		\$ 7,500,000	\$ 12,500,000	\$ 20,000,000	\$ 22,000,000	10%	\$ 13,750,000		\$ 2,750,000	\$ 2,750,000	\$ 2,750,000	\$ 2,750,000	\$ 2,750,000	\$ 13,750,000				\$ 13,750,000.00				assumes \$2.9M/yr - cost provided by Corps	
Intertidal	\$ 78,400,763																						
UH Intertidal		-	\$ 57,266,772	\$ 57,266,772	\$ 68,720,127	20%	\$ 68,720,127			\$ 34,360,063	\$ 34,360,063			\$ 68,720,127				\$ 68,720,126.75	12/1/2017	5/1/2018	6/1/2019	Assume work start in 3/18 and is fully funded and east and west sides done simultaneously, totaled using below two items.	
Eastern shoreline			\$ 42,478,875					35,130														Costs based upon engineers estimate \$1209/yd, inc excavation, restoration, T&D -see backup	
Western Shoreline			\$ 14,787,897					14,437														Costs based upon engineers estimate \$1024/yd, incl excavation, restoration, T&D - see backup	
Parcel 265	\$ 2,229,750	\$ 2,229,750	\$ 2,229,750	\$ 2,229,750	0%	\$ -																Not included in UAO estimate	
PMC	\$ 6,886,700	\$ 438,360	\$ 7,325,060	\$ 7,691,313	5%	\$ 460,278								\$ -				\$ -				UAO included this with intertidal volume. CTC includes SES, T&D, restoration, demob	
LH		\$ 278,114	\$ 278,114	\$ 333,737	20%	\$ 333,737		230						\$ -				\$ -	12/1/2017	3/1/2018	6/1/2018	Not Contracted. Assumes 230 cu yds from North Street property only	
BIB		\$ 918,985	\$ 918,985	\$ 1,010,884	10%	\$ 1,010,884		780						\$ -				\$ -	5/1/2018	8/30/2018	10/29/2018	Not Contracted. Assumes 780 cubic yards @ \$877/yd	
Marsh Island	\$ 3,380,452	\$ 2,282,220	\$ 2,282,220	\$ 2,510,442	10%	\$ 2,510,442								\$ -				\$ -	4/1/2017	8/1/2017	11/1/2017	Work is contracted. Cost from RAC TD03 negotiated proposal June 30 2017 - less management time	
Aerovox																							
Aerovox Interim Cap		-	\$ 4,800,000	\$ 4,800,000	\$ 6,240,000	30%	\$ 6,240,000		\$ 6,240,000					\$ 6,240,000				\$ 6,240,000.00	12/1/2017	5/1/2018	7/1/2018	Not Contracted. Assumed 3 ft carbon sand cover (per Corps direction). Temporary solution does not complete final remedy.	
Interim Cap LTM			\$ 750,000	\$ 750,000	\$ 900,000	20%	\$ 900,000			\$ 180,000	\$ 180,000	\$ 180,000	\$ 180,000	\$ 720,000	\$ 180,000.00			\$ 900,000.00				Not Contracted. Assumed annual benthic and sampling of cover and reporting. No replacement costs.	
Cell 1	\$ 23,958,830																						
Cell 1 Interim Remedy			\$ 1,000,000	\$ 1,000,000	\$ 1,200,000	20%	\$ 1,200,000			\$ 1,000,000	\$ 50,000	\$ 50,000	\$ 100,000	\$ 1,200,000				\$ 1,200,000.00	1/1/2018	6/1/2018	6/1/2022	Not Contracted. Assumed temporary AS/SVE for reduction of CVCOCs.	
Full Demob	\$ 7,977,325	-	\$ 5,785,460	\$ 5,785,460	\$ 7,810,370	35%	\$ 7,810,370				\$ 3,250,000	\$ 3,250,000	\$ 1,310,370	\$ 7,810,370				\$ 7,810,370.47	10/1/2018	1/1/2019	1/1/2023	CTC from May 2016 Jacobs proposal. Contingency based upon undefined future status and necessary improvement of Areas C and D.	
Dredge & Fill LHCC	\$ 39,838,604																						
Construct CAD Cell		\$ 9,563,000	\$ 9,563,000	\$ 9,563,000	0%	\$ -								\$ -								Complete - UAO costs for all work related to CAD Cell, less the \$11.3M from EPA HQ (need to verify if paid back)	
Dredge and Fill LHCC - Jacobs		\$ 14,155,772	\$ 14,155,772	\$ 14,155,772	0%	\$ -								\$ -								complete	
Pre-BV - UH & LH to LHCC Mechanical - Jacobs		\$ 462,280	\$ 462,280	\$ 462,280	0%	\$ -				\$ 462,280				\$ 462,280				\$ 462,279.84				Work is complete, pending final invoicing. UH and LH Mech dredge - MU 25, 28, silt curtains, Moby Dick.	
UH & LH to LHCC Mechanical - Jacobs (37 CAD)		\$ 1,060,000	\$ 1,060,000	\$ 1,166,000	10%	\$ 1,166,000					\$ 3,591,942			\$ 3,591,942				\$ 3,591,942.00				One plant 120 days (37CAD), includes current Jacobs costs	
Dredge and Fill LHCC - BV		\$ 14,915,983	\$ 14,915,983	\$ 14,915,983	0%	\$ 14,915,983			\$ 18,700,000					\$ 18,700,000				\$ 18,700,000.00		6/1/2017	6/1/2018	Per USACE Email (3/16/17) changed from \$18M to \$17M. Fixed Cost Contract estimate	
Survey Contract - BV		\$ 700,000	\$ 700,000	\$ 700,000	0%	\$ 700,000			\$ 700,000					\$ 700,000				\$ 700,000.00		5/1/2017	5/1/2018	Per USACE Email (3/16/17) changed from \$800k to \$700k. Based on award to Bryant	
Between the Bridges Subdrain		\$ 2,830,872	\$ 2,830,872	\$ 2,830,872	10%	\$ 2,830,872		12,868		\$ 2,830,872				\$ 2,830,872				\$ 2,830,872.00	5/1/2018	11/2/2018	10/28/2018	Negotiated and Awarded, added fee in RFP	
Dredge Cleanup Passes - Jacobs		\$ 3,380,000	\$ 3,380,000	\$ 3,718,000	10%	\$ 3,718,000		16,900		\$ 3,718,000				\$ 3,718,000				\$ 3,718,000.00	2/1/2018	6/1/2018	11/1/2018	10% cleanup passes, based on BV CTC	
Cap LHCC	\$ 5,780,303	-	\$ 5,100,000	\$ 5,100,000	\$ 5,992,500	18%	\$ 5,992,500					\$ 5,992,500		\$ 5,992,500				\$ 5,992,500.00	11/1/2018	12/1/2019	1/1/2020	Cost estimate from EPA. Cost need to be revised, requires a small group meeting discussion prior to cost estimate revision.	
MU-22		\$ 112,992	\$ 112,992	\$ 112,992	0%	\$ 112,992		814						\$ 112,992				\$ 112,992.00				Includes 4 inches overdrudge (513.6 yds to LHCC, avg conc of removed material is 58.6 ppm)	
MU-26		\$ 990,660	\$ 990,660	\$ 1,089,660	10%	\$ 1,089,660		4,953		\$ 1,089,660				\$ 1,089,660				\$ 1,089,660.00				Includes 4 inches overdrudge (4653 yds to LHCC, avg conc of removed material is 80.4 ppm)	
MU-29		\$ 2,821,984	\$ 2,821,984	\$ 2,821,984	10%	\$ 2,821,984		12,827		\$ 2,821,984				\$ 2,821,984				\$ 2,821,984.00				Includes 4 inches overdrudge (12827.2 yds to LHCC, avg conc of removed material is 56.3 ppm)	
PMC		\$ 1,836,800	\$ 1,836,800	\$ 2,020,480	10%	\$ 2,020,480		22,884		\$ 2,020,480				\$ 2,020,480				\$ 2,020,480.00				Includes 4 inches overdrudge (22884 yds to LHCC, avg conc of removed material is 80.4 ppm)	
Area R		\$ 4,063,984	\$ 4,063,984	\$ 4,063,984	10%	\$ 4,063,984		18,427		\$ 4,063,984				\$ 4,063,984				\$ 4,063,984.00				Includes 4 inches overdrudge (18427.2 yds to LHCC, avg conc of removed material is 101.6 ppm)	
Area L		\$ 2,415,600	\$ 2,415,600	\$ 2,415,600	10%	\$ 2,415,600		10,380		\$ 2,415,600				\$ 2,415,600				\$ 2,415,600.00				Includes 4 inches overdrudge (10380.2 yds to LHCC, avg conc of removed material is 98.3 ppm)	
																						CUBIC YARDS TO LHCC - 70386.2	
Hydraulic Dredging	\$ 154,456,091	\$ 51,365,786	\$ 51,365,786	\$ 51,365,786	0%	\$ -								\$ -								2014 through 2016 dredging less \$12M, Parcel 265, and fixed costs	
Temporary Pipeline Rele		-	\$ 1,235,659	\$ 1,235,659	0%	\$ 1,235,659								\$ -								Negotiated and Awarded	
Capping DDA		-	\$ -	\$ -	20%	\$ -								\$ -								Capping of DDA cost estimated from ESD 4	
Sand Cover		\$ 2,925,000	\$ 2,925,000	\$ 3,217,500	10%	\$ 3,217,500				\$ 3,217,500				\$ 3,217,500				\$ 3,217,500.00				This is an assumed volume of 100,000 cu. mechanical placement - ASSUMES ONLY 25% COVER USED - ORIGINALLY \$11.7 AND 12.87 W/C	
Maintenance of Salt Marsh Restoration		\$ 550,000	\$ 550,000	\$ 550,000	10%	\$ 550,000			\$ 275,000				\$ 275,000	\$ 550,000				\$ 550,000.00				Year 1 after restoration and Year 5 - Not previously included.	
LHCC O&M	\$ 580,163	-	\$ 689,052	\$ 723,504	5%	\$ 723,504					\$ 80,000		\$ 80,000	\$ 160,000	\$ 80,000.00			\$ 80,000.00				Cost to Complete is escalated UAO cost (3.5%)	
Seafloor Monitoring	\$ 721,387	-	\$ 579,290	\$ 579,290	0%	\$ 579,290				\$ 579,290				\$ 579,290				\$ 579,289.63				Costs from Mesa/DEP	
Site Wide Benthic LTM	\$ 816,703	\$ 536,021	\$ 550,000	\$ 1,086,021	5%	\$ 577,500				\$ 577,500				\$ 577,500				\$ 577,500.00				Cost to Complete is escalated UAO cost (3.5%), assume 1/Syr	
Fixed Costs	\$ 54,927,518																					Jacobs Fixed Costs.	
Project Management and Admin		\$ 17,093,002	\$ 7,905,128	\$ 24,998,130	\$ 27,497,943	10%	\$ 8,695,641		\$ 579,709	\$ 1,739,128.12	\$ 1,739,128.12	\$ 1,739,128.12	\$ 1,739,128.12	\$ 7,536,222	\$ 666,126.30			\$ 8,202,348.13					
Site Ops and Warehouse		\$ 2,966,979	\$ 3,917,646	\$ 6,784,626	\$ 7,463,089	10%	\$ 4,309,412		\$ 287,294	\$ 861,882.47	\$ 861,882.47	\$ 861,882.47	\$ 861,882.47	\$ 3,734,824	\$ 484,598.10			\$ 4,218,422.12					
Air Monitoring		\$ 1,077,021	\$ 1,364,741	\$ 2,461,763	\$ 2,707,939	10%	\$ 1,523,216			\$ 304,643	\$ 304,643	\$ 304,643	\$ 304,643	\$ 1,218,572	\$ 169,485.39			\$ 1,387,057.84				Air Monitoring for 2017 is funded.	
Hybrid Dredging																							
Cable Crossing		\$ 25,746,215	\$ 25,746,215	\$ 28,320,837	10%	\$ 28,320,837																Based on initial proposal for TD04 (55,000 yds), revised - see submittal back up - includes Mob/Winterization already funded	
Area O		\$ 16,602,687	\$ 16,602,687	\$ 16,602,687	10%	\$ 16,602,687		29,361		\$ 16,602,687				\$ 16,602,687				\$ 16,602,687.48	11/1/2017	3/19/2018	5/28/2018	Includes 4 inches overdrudge (29360.5 yds, avg conc of removed material is 266.5 ppm)	
Area N		\$ 7,918,882	\$ 7,918,882	\$ 7,918,770	14,004	\$ 7,918,770				\$ 7,918,770.26				\$ 7,918,770.26				\$ 7,918,770.26	11/1/2017	6/4/2018	7/10/2018	Includes 4 inches overdrudge (14003.7 yds, avg conc of removed material is 113.3 ppm)	
Area H		\$ 9,567,305	\$ 9,567,305	\$ 9,567,305	10%	\$ 9,567,305		16,919		\$ 9,567,305				\$ 9,567,305				\$ 9,567,305.36	11/1/2017	7/11/2018	8/17/2018	Includes 4 inches overdrudge (16919 yds, avg conc of removed material is 187.2 ppm)	
Area I		\$ 3,940,187	\$ 3,940,187	\$ 3,940,187	10%	\$ 3,940,187		6,968		\$ 3,940,187				\$ 3,940,187				\$ 3,940,187.19	11/1/2017	8/20/2018	9/7/2018	Includes 4 inches overdrudge (6967.5 yds, avg conc of removed material is 75.1 ppm) Max conc exceed 700 ppm in some samples	
Area P		\$ 4,121,705	\$ 4,121,705	\$ 4,121,705	10%	\$ 4,121,705		7,289		\$ 4,121,705				\$ 4,121,705				\$ 4,121,705.31	11/1/2017	9/10/2018	9/26/2018	Includes 4 inches overdrudge (7289.5 yds, avg conc of removed material is 58.4 ppm) Max conc exceed 1,500 ppm in some samples	
Area S		\$ 11,084,763	\$ 11,084,763	\$ 11,084,763	10%	\$ 11,084,763		18,603		\$ 11,084,763				\$ 11,084,763				\$ 11,084,762.89	11/1/2017	9/27/2018	11/9/2018	Includes 4 inches overdrudge (18602.5 yds, avg conc of removed material is 75.3 ppm) Max conc exceeds 500 ppm in some samples	
Areas T & T		\$ 1,696,431	\$ 1,696,431	\$ 1,696,431	10%	\$ 1,696,431		3,000		\$ 1,696,431				\$ 1,696,431				\$ 1,696,431.00	11/1/2017	11/12/2018	11/19/2018	Assumes 3000 cubic yards	
MU-31		\$ 1,473,011	\$ 1,473,011	\$ 1,473,011	10%	\$ 1,473,011		2,605		\$ 1,473,011				\$ 1,473,011				\$ 1,473,011.04	11/1/2017	11/26/2018	11/26/2018	Includes 4 inches overdrudge (2604.9 yds, avg conc of removed material is 36 ppm) Max conc exceed 400 ppm	